

NORTHERN MOJAVE, UPPER AMARGOSA RIVER BASIN

10251300 AMARGOSA RIVER AT TECOPA, CA

LOCATION.--Lat 35°50'55", long 116°13'45" referenced to North American Datum of 1927, in NW 1/4 SE 1/4 sec. 09, T.20 N., R.07 E., Inyo County, Hydrologic Unit 18090202, on right bank, 20 ft upstream from Old Spanish Trail Road, and 0.2 mi west of Tecopa.

DRAINAGE AREA.--3,090 mi² much of which is noncontributing.

PERIOD OF RECORD.--October 1961 to August 1983, October 1991 to September 1995, 1998 miscellaneous discharge, January 1999 to current year.

GAGE.--Water-stage recorder and culvert control. Elevation of gage is 1,310 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to October 16, 1991, at datum 16.52 ft higher.

REMARKS.--Records poor. City of Tecopa pumps water for municipal use upstream. See schematic diagram of Northern Mojave, Upper Amargosa River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,600 ft³/s, August 19, 1983, determined from culvert computations and flow over road, gage height, 16.00 ft, datum then in use; no flow some days some years.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15 ft³/s and maximum (*):

	Date	Time	Discharge (ft ³ /s)	Gage height (ft)		Date	Time	Discharge (ft ³ /s)	Gage height (ft)
	December 25	2130	*92	*6.11		March 4	0815	35	5.53
	February 26	0959	44	5.71		August 15	2230	36	5.69
	March 2	1159	69	5.94		September 13	1930	22	5.58

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.27	0.06	e0.75	e1.0	0.90	5.9	0.47	0.12	0.11	0.03	0.05	0.14
2	0.23	0.06	e0.75	e1.0	0.82	36	0.63	0.13	0.10	0.04	0.05	0.12
3	0.25	0.06	0.84	e1.0	1.4	25	0.68	0.14	0.10	0.06	0.06	0.11
4	0.21	0.09	0.85	e1.0	1.3	27	0.76	0.13	0.08	0.04	0.06	0.11
5	0.23	0.14	0.87	e1.0	1.1	16	0.69	0.09	0.10	0.03	0.06	0.10
6	0.27	0.19	0.83	e1.1	0.91	9.5	0.54	0.08	0.09	0.03	0.07	0.10
7	0.27	0.23	0.74	1.1	0.85	7.0	0.48	0.09	0.08	0.04	0.08	0.10
8	e0.25	0.25	0.75	1.1	0.74	5.5	0.42	0.10	0.08	0.03	0.09	0.09
9	e0.25	0.29	0.55	1.1	0.72	4.8	0.47	0.10	0.10	0.04	0.09	0.09
10	e0.25	0.33	0.65	1.2	0.70	2.7	0.46	0.11	0.12	0.05	0.09	0.09
11	e0.25	0.31	0.85	1.2	0.61	1.5	0.35	0.12	0.12	0.06	0.10	0.09
12	e0.25	1.2	0.79	1.2	0.55	1.0	0.35	0.13	0.08	0.06	0.09	0.11
13	e0.25	2.7	0.82	1.2	0.54	1.1	0.35	0.15	0.08	0.05	0.11	5.4
14	e0.25	0.87	0.83	1.2	0.69	0.97	0.30	0.16	0.08	0.06	0.13	11
15	e0.20	0.73	1.1	1.2	0.74	1.0	0.30	0.17	0.08	0.06	2.8	4.2
16	e0.20	1.3	0.87	1.1	0.78	0.89	0.29	0.15	0.08	0.07	3.7	0.65
17	e0.20	0.89	0.84	1.1	0.81	0.84	0.31	0.13	0.10	0.07	0.17	0.07
18	e0.20	0.72	1.1	1.1	1.8	0.89	0.36	0.12	0.11	0.07	2.6	0.07
19	e0.20	0.84	0.97	1.2	4.1	0.95	0.41	0.11	0.12	0.06	4.8	0.06
20	e0.20	0.93	1.2	1.1	2.6	0.95	0.44	0.12	0.12	0.05	1.7	0.07
21	e0.15	1.1	1.2	1.1	3.7	0.84	0.44	0.12	0.05	0.06	1.2	0.07
22	e0.15	0.77	1.2	1.0	4.5	0.86	0.40	0.12	0.03	0.06	0.94	0.08
23	e0.15	e0.70	1.3	0.86	28	0.84	0.26	0.10	0.02	0.06	0.13	0.08
24	e0.15	e0.70	1.5	0.90	8.7	0.74	0.22	0.12	0.02	0.05	0.57	0.08
25	e0.15	e0.70	15	0.94	6.4	0.75	0.23	0.11	0.02	0.05	1.1	0.09
26	e0.10	e0.70	17	0.79	20	0.67	0.22	0.13	0.02	0.05	0.45	0.08
27	e0.10	e0.70	3.2	0.84	8.7	0.69	0.18	0.15	0.03	0.05	0.19	0.08
28	e0.10	e0.70	1.5	0.97	7.8	0.57	0.17	0.14	0.04	0.06	0.22	0.08
29	e0.10	e0.70	1.0	0.93	7.2	0.55	0.14	0.12	0.03	0.05	0.29	0.08
30	e0.10	e0.70	e1.0	0.98	---	0.55	0.12	0.11	0.03	0.05	0.33	0.07
31	e0.10	---	e1.0	1.0	---	0.55	---	0.13	---	0.05	0.20	---
TOTAL	6.03	19.66	61.85	32.51	117.66	157.10	11.44	3.80	2.22	1.59	22.52	23.56
MEAN	0.19	0.66	2.00	1.05	4.06	5.07	0.38	0.12	0.07	0.05	0.73	0.79
MAX	0.27	2.7	17	1.2	28	36	0.76	0.17	0.12	0.07	4.8	11
MIN	0.10	0.06	0.55	0.79	0.54	0.55	0.12	0.08	0.02	0.03	0.05	0.06
AC-FT	12	39	123	64	233	312	23	7.5	4.4	3.2	45	47

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2004, BY WATER YEAR (WY)

MEAN	1.41	0.87	3.94	6.16	11.5	6.35	1.82	0.44	0.14	0.55	6.09	3.95
(WY)	(1977)	(1966)	(1966)	(1995)	(1993)	(1983)	(2003)	(1977)	(1969)	(1965)	(1983)	(1976)
MIN	0.00	0.01	0.39	0.70	0.69	0.36	0.07	0.02	0.00	0.00	0.00	0.00
(WY)	(1972)	(1993)	(1994)	(1994)	(1979)	(1994)	(1994)	(1994)	(1993)	(1966)	(1963)	(1964)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1962 - 2004
ANNUAL TOTAL	1,944.55	459.94	
ANNUAL MEAN	5.33	1.26	3.62
HIGHEST ANNUAL MEAN			14.9
LOWEST ANNUAL MEAN			0.22
HIGHEST DAILY MEAN	490	Aug 20	1,500
LOWEST DAILY MEAN	0.05	May 24	0.00
ANNUAL SEVEN-DAY MINIMUM	0.05	May 23	0.00
MAXIMUM PEAK FLOW			10,600
MAXIMUM PEAK STAGE			16.00
ANNUAL RUNOFF (AC-FT)	3,860	912	2,630
10 PERCENT EXCEEDS	5.0	1.5	2.4
50 PERCENT EXCEEDS	0.45	0.27	0.24
90 PERCENT EXCEEDS	0.09	0.06	0.00

e Estimated